

PAPERS BY BELL LABORATORIES AUTHORS

COMPUTING/MATHEMATICS

Algorithms for Multiple-Criterion—Design of Microprogrammed Control Hardware. A. W. Negle and A. C. Parker, *Proc 18th Design Automation Conf* (June 29, 1981), pp 486-93.

Construction and Display of Three-Dimensional Polygonal-Histograms. R. Hilbert, *Computer Graphics*, 15, No. 2 (July 1981), pp 230-41.

Heavy-Traffic Limits for Queues With Many Exponential Servers. S. Halfin and W. Whitt, *Oper Res*, 29 (May-June 1981), pp 567-88.

IEEE 488 Error Handling Techniques: Pros and Cons. L. F. Santors, Jr., *Computer Design*, 20, No. 6 (June 1981), pp 143-7.

An Information Theoretic Approach to Digital Fault Testing. V. D. Agrawal, *IEEE Trans Computers*, C-30, No. 8 (August 1981), pp 582-7.

The Nonexistence of a Certain Steiner System $S(3,12,112)$. N. J. A. Sloane and J. G. Thompson, *J Combinatorial Theory*, 30A (1981), pp 209-36.

Online Information Retrieval Bibliography—Fourth Update. D. T. Hawkins, *Online Review*, 5, No. 2 (1981), pp 139-82.

On Stochastic Bounds for the Delay Distribution in the GI/G/A Queue. W. Whitt, *Oper Res*, 29 (May-June 1981), pp 604-8.

Tables of Sphere Packings and Spherical Codes. N. J. A. Sloane, *IEEE Trans Inform Theory*, IT-27 (1981), pp 327-38.

Uniform Syntax for Type Expressions and Declarators. R. Sethi, *Software—Practice and Experience*, 11, No. 6 (June 1981), pp 623-8.

Uniqueness of Certain Spherical Codes. E. Bannai and N. J. A. Sloane, *Can J Math*, 33 (1981), pp 437-49.

Vector Coding Methods for Compaction of Scan-Digitized Line Drawing Images. W. Pford and J. P. White, *Proc 2nd Scandinavian Conf Image Analysis* (June 15, 1981), pp 297-302.

ENGINEERING

Bending, Damping, and Fatigue of Metals. G. F. Weissmann, *Experimental Mech*, 21 (July 1981), pp 255-60.

Experimental Results of 20-Mb/s FSK Digital Transmission on 4-GHz (TD) Radio. Y. Y. Wang, *ICC Conf Record*, 1 (June 14, 1981), pp 13.4.1-5.

High-Order Intermodulation Effects in Digital Satellite Channels. K. Y. Eng and O.-C. Yue, *IEEE Trans Aerospace Elec Syst*, AES-17, No. 3 (May 1981), pp 438-45.

Laser-Patterned Ta_2N Resistors for Thin Film Circuits. L. J. Kiszka and P. L. Scarff III, *Proc 1981 31st Elec Components Conf* (May 11-13, 1981), pp 449-55.

Microprocessors in Power Control, the Time has Come. P. F. Gensinger and E. A. Rosin, *INTELEC 1981 Conf Proc* (May 19-21, 1981), pp 1-6.

Progress in Multimode and Single-Mode Lightguides Prepared by the MC&D Process. M. I. Cohen, *Tech Digest, IEEE/OSA Conf Lasers and Electro-Optics* (June 10-12, 1981), pp 12-4.

PHYSICAL SCIENCES

Carbon-13 Nuclear Magnetic Resonance Studies of Solid Segmented Copolymers. 1. Mobile Domains of a Polyester Thermoplastic Elastomer. L. W. Jelinski, F. C. Schilling, and F. A. Bovey, *Macromolecules*, 14, No. 3 (1981), pp 581-6.

Crystal Structure and Pyroelectric Coefficient of $Co(IO_3)_2$ and Structural Relationships Among the Anhydrous Noncentrosymmetric 3-d-Transition Metal Iodates. C. Svensson, S. C. Abrahams, and J. L. Bernstein, *J Solid State Chem*, 36 (February 1981), pp 195-204.

Development and Evaluation of a Pre-Encapsulation Cleaning Process to Improve Reliability of HIC's with Aluminum Metallized Chips. M. Iannuzzi, Proc. IEEE 31st Elect Comp Conf (May 1981), pp 228-37.

Electrochromic Cells With Iridium Oxide Display Electrodes. W. C. Dautremont-Smith, L. M. Schiavone, S. Hackwood, G. Beni, and J. L. Shay, Solid State Ionics, 2, No. 1 (April 1981), pp 13-8.

Electrolyte-Oxide-Semi-Conductor Junction at the p-Indium and Phosphide/Vanadium (2+)-Vanadium (3+) Interface. S. Meozes, H. J. Lewerenz, F. A. Thiel, and K. J. Bachmann, Appl Phys Lett, 38, No. 9 (May 1981), pp 710.

Enhanced Raman Scattering from Adsorbates on Metal Films in Ultra-High Vacuum. T. H. Wood, M. V. Klein, and D. A. Zwemer, Surface Science, 107 (1981), pp 625-35.

Improved Electrochromic Behavior of Reactively Sputtered Iridium Oxide Films. L. M. Schiavone, W. C. Dautremont-Smith, G. Beni, and J. L. Shay, J Electrochem Soc, 128, No. 6 (June 1981), pp 1339-42.

Impurity States in Amorphous As_2Te_3 . J. J. Hauser, R. S. Hutton, and A. Staudinger, Phil Magazine, 44, No. 1 (July 1981), pp 109-25.

Liquid Phase Sintering of a CrCoFe Permanent Magnet Alloy. M. L. Greeo and C. C. Wong, Mod Dev in Powder Metallurgy, 12 (July 1981), pp 453-72.

Multiphoton Ionization Mass Spectroscopy of Deuterated Analogs of Acetaldehyde: Evidence for Deuterium Scrambling. G. J. Fisanick and T. S. Eichelberger, IV, J Chem Phys, 74, No. 12 (June 15, 1981), pp 6692-9.

Multiphoton Ionization Spectroscopy of the 3, Rydberg State in the Deuterated Acetaldehydes. T. S. Eichelberger, IV and G. J. Fisanick, J Chem Phys, 74, No. 11 (June 1, 1981), pp 5962-70.

Paraelectric-Paraelastic $Rh_2KM_2O_3F_8$ Structure at 343 and 473K. S. C. Abrahams, J. L. Bernstein, and J. Ravez, Acta Crystallographica, B37, No. 7 (July 15, 1981), pp 1332-6.

Phase Separation Behavior of Ruhher-Modified Epoxies. T. T. Wang and H. M. Zupko, J Appl Polym Sci, 26 (1981), pp 2391-401.

Phase Transitions at 462 and 495K in Barium Nitrite. S. C. Abrahams, P. K. Gallagher, H. M. O'Bryan, and R. Liminga, J Appl Phys, 52, No. 4 (April 1981), pp 2837-40.

Plasma Etching of III-V Compound Semiconductor Materials and Their Oxides. G. Smolinsky, R. P. Chang, and T. M. Mayer, J Vac Sci Tech, 18, No. 1 (January/February 1981), pp 12-6.

Response of Piezoelectric Transducers Used in Pulsed Optoacoustic Spectroscopy. E. T. Nelson and C. K. N. Patel, Opt Lett, 6, No. 7 (July 1981), pp 354-6.

Surface Second-Harmonic Generation From Metal Island Films and Microlithographic Structures. A. Wokaun, J. G. Bergman, J. P. Heritage, A. M. Glass, P. F. Liao, and D. H. Olson, Phys Rev B, 24, No. 2 (July 15, 1981), pp 849-56.

Synthesis and Characterization of $(nBu_4N)_3Re(NCS)_6$, a Rhenium (III) Thiocyanate Complex. H. S. Trop, A. Davison, and A. G. Jones, Inorganica Chimica Acta, 54 (August 1981), pp L61.

X-Ray Microbeam System With a Discrete-Spot Target. O. Fujimura and M. E. Haskin, Proc SPIE—The Int Soc Opt Eng, 273 (1981), pp 244-53.

SPEECH AND ACOUSTICS

Body-Cover Theory of the Vocal Fold and its Phonetic Implications. O. Fujimura, Vocal Fold Physiology, (1981), pp 271-88.

Temporal Organization of Articulatory Movements as a Multidimensional Phrasal Structure. O. Fujimura, Phonetica, 38 (1981), pp 66-83.